

LUBRICANT FOR POLYURETHANE ELASTIC FIBER

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Inventor: YAMANAKA SEISUKE; others: 02
Applicant: MATSUMOTO YUSHI SEIYAKU CO LTD
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Abstract of JP3146774

PURPOSE: To obtain the title lubricant capable of preventing aggregation and color change of polyurethane elastic fiber by blending a base treating agent with a specific polyether alkyl group-modified silicone oil to reduce viscosity of lubricant to a specific viscosity or below using a binding agent.

CONSTITUTION: A base treating agent (e.g. mineral oil, especially fluid paraffin) is blended with a polyether alkyl-modified silicone oil expressed by the formula [R is bivalent 2-6C hydrocarbon; M is H, hydrocarbon, alkylamino or acyl; (n) is 50-150; X is 0-10; Y is 0-10 (provided that (x) and (y) are not simultaneously 0)] to provide the lubricant for polyurethane elastic fiber being ≤ 50 cst at 30 deg.C in lubricant viscosity without using a binding agent (e.g. metal soap) used hitherto. The lubricant prevents aggregation of yarns when rolled into bobbin and improves quality of yarn by lowering abrasion between fiber and metal and can remarkably improve operating property.

